

DENTAL ASSISTING I

DOE #5203

CIP Code: 51.0601 Dental Assisting/Assistant

Dental Assisting I prepares the student for an entry level dental assisting position. A variety of instructional strategies and technologies are used to teach basic skills that provide an excellent foundation for post secondary dental health occupations. Course content includes in-depth study and practical applications of: infection control procedures, medical emergencies, pharmacology, diseases of the mouth, tooth identification and anatomy, dental charting, identification and utilization of dental instruments, oral hygiene instruction, community dental health education, and nutrition. Simulated in-school laboratories and/or extended laboratory experiences are included to provide opportunities for students to develop clinical skills and appropriate ethical behaviors. Leadership skills are developed and community service provided through HOSA. Students have the opportunity to compete in a number of competitive events at both the state and national level.

- Recommended Grade Level: 10-12
- Required Prerequisite: None
- Recommended Prerequisite: Introduction to Dental Health Careers or Introduction to Health Care Systems or Integrated Health Sciences I and II, and CPR Certification
- Credits: A one-semester course, two to three credits per semester
- A Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diploma directed elective course
- A Career Academic Sequence, Career-Technical program, or Flex Credit course
- Academic content standards:
http://www.doe.state.in.us/ocfe/health/hce/dental_assisting-I.pdf
- Curriculum Framework:
http://www.doe.state.in.us/ocfe/health/hce/dental_assisting-I.pdf
- Teacher Requirements: <http://doe.state.in.us/dps/licensing/assignmentcode>
- Funding: State Additional Pupil Count (APC) vocational funding available if taught by CTE licensed Health Sciences teacher

Content Standards and Competencies

The following are measurable exit standards and competencies that students should know and be able to do at the conclusion of the course. The content standards and competencies do not define a specific sequence for teaching and learning. While all content standards and competencies should be addressed in some way, teaching order and areas of emphasis will vary according to local needs.

1. TOOTH STRUCTURES: IDENTIFY TOOTH STRUCTURES AND DISEASES OF THE ORAL CAVITY.

1.1. Identify teeth and their landmarks.

- 1.2. Describe the hard and soft tissues of the oral cavity.
- 1.3. Describe oral pathological conditions.
- 1.4. Identify the embryonic development of the head, oral cavity, and teeth.
- 1.5. Describe the histological components of the head, oral cavity, teeth and supporting structures.

2. PHARMACOLOGY: IDENTIFY THE USES OF DRUGS AS THEY RELATE TO DENTISTRY.

- 2.1. Record a drug prescription on a patient's chart.
- 2.2. Identify the actions, side effects, indications and contraindications of drugs.
- 2.3. Identify common drugs used in dentistry.
- 2.4. Prepare and apply topical anesthetic agents.
- 2.5. Identify properties of anesthetics.
- 2.6. Prepare syringes for the administration of local anesthetics.
- 2.7. Identify precautions in the use of nitrous oxide-oxygen conscious sedation.

3. EMERGENCY MANAGEMENT: DEMONSTRATE THE MANAGEMENT OF DENTAL OFFICE EMERGENCIES.

- 3.1. Maintain CPR and First Aid Certification.
- 3.2. Describe dental office emergencies, prevention, and treatment.
- 3.3. Develop an emergency plan of action.

4. DENTAL CHARTING: PERFORM DENTAL CHARTING AND RECORD PATIENT INFORMATION.

- 4.1. Describe the numbering system.
- 4.2. List cavity classifications.
- 4.3. Record dental histories.
- 4.4. Record vital signs.
- 4.5. Chart existing oral conditions.
- 4.6. Chart dictated diagnostic conditions.

5. ORAL HEALTH AND NUTRITION: DESCRIBE PRINCIPLES AND PERFORM TECHNIQUES OF PREVENTATIVE DENTISTRY.

- 5.1. Inform patients on applicable methods of preventive dentistry.
- 5.2. Prepare the set up for oral prophylaxis and apply anticariogenic treatment.
- 5.3. Identify the elements of nutrition in relationship to dentistry.
- 5.4. Identify deficiencies that manifest symptoms in the oral cavity.
- 5.5. Demonstrate knowledge of assessment, planning, implementation and evaluation of community health interventions.

6. INFECTION CONTROL: IDENTIFY PRINCIPLES OF MICROBIOLOGY AND DISEASE PREVENTION.

- 6.1. Differentiate between pathogenic and non-pathogenic microorganisms.
- 6.2. Describe pathogens and modes of disease transmission.
- 6.3. Differentiate between aseptic and non-aseptic environments.
- 6.4. Perform aseptic hand washing technique.

- 6.5. Perform infection control procedures.
- 6.6. Clean, disinfect, and sterilize in accordance with standard procedures.
- 6.7. Demonstrate knowledge of OSHA mandated training.

7. DENTAL INSTRUMENTS: IDENTIFY AND UTILIZE DENTAL INSTRUMENTS AND EQUIPMENT.

- 7.1. Identify various types and functions of dental operatory and laboratory equipment.
- 7.2. Identify instruments and describe their functions for general dental procedures.
- 7.3. Maintain dental operatory equipment and instruments.
- 7.4. Perform tray set-ups for general procedures.